

**DAMAGE SURVEY REPORT (DSR)**  
**Emergency Watershed Protection Program – Recovery**

**Section 1A**

Date of Report: March 15, 2006

DSR Number: 019-5-070R Project Number: \_\_\_\_\_

NRCS Entry Only

Eligible: YES X NO \_\_\_\_\_  
Approved: YES X NO \_\_\_\_\_  
Funding Priority Number (from Section 4) 2de  
Limited Resource Area: YES \_\_\_\_\_ NO X

**Section 1B Sponsor Information**

Sponsor Name: Gravity Drainage District No. 8

Address: 2841 Goss Road

City/State/Zip: Lake Charles, LA 70611

Telephone Number: 337 855-4388 Fax: 337 855-4388

**Section 1C Site Location Information**

County: Calcasieu State: Louisiana Congressional District: 7<sup>th</sup>

Latitude: 30.35563 Longitude: -93.26212 Section: 23 Township: 8S Range: 9W  
30.35021 -93.26205

UTM Coordinates: \_\_\_\_\_

Drainage Name: IB-4A Reach: 2800 feet

Damage Description: Fallen trees and debris accumulation in drain and various culverts along drainage system from Hurricane Rita.

**Section 1D Site Evaluation**

All answers in this Section must be YES in order to be eligible for EWP assistance.

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?*	<u>x</u>		
Recovery measures would be for runoff retardation or soil erosion prevention?*	<u>x</u>		
Threat to life and/or property?*	<u>x</u>		
Event caused a sudden impairment in the watershed?*	<u>x</u>		
Imminent threat was created by this event?***	<u>x</u>		
For structural repairs, not repaired twice within ten years?***	<u>x</u>		
<b>Site Defensibility</b>			
Economic, environmental, and social documentation adequate to warrant action? (Go to pages 3, 4, 5 and 6 ***)	<u>x</u>		
Proposed action technically viable? (Go to Page 9 ***)	<u>x</u>		

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the EWP program and its possible effects? YES X NO \_\_\_\_\_

Comments: \_\_\_\_\_

\* Statutory

\*\* Regulation

\*\*\* DSR Pages 3 through 6 and 9 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages. 1 of 14

Approved 7/2005

**Section 1E Proposed Action**

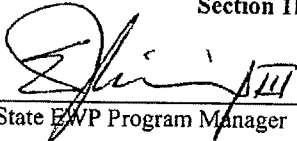
Describe the preferred alternative from Findings: Section 5 A:

Debris of tree tops, trunks, and roots need to be removed by hauling away these obstacles to an approved land fill site. The equipment utilizing south side of drainage system would cause less impact to immediate area.

Total installation cost identified in this DSR: Section 3:

**Section 1F NRCS State Office Review and Approval**

Reviewed By: \_\_\_\_\_

  
State EWP Program Manager

Date Reviewed: 4/5/06

Approved By: \_\_\_\_\_

State Conservationist

Date Approved: \_\_\_\_\_

**PRIVACY ACT AND PUBLIC BURDEN STATEMENT**

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95-334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

**USDA NONDISCRIMINATION STATEMENT**

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write USDA, Director of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call (800)795-3272 (voice) or (202)720-6382 (TDD). USDA is an equal opportunity provider and employer.

**Civil Rights Statement of Assurance**

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

DSR NO: 019-05-070R  
Section 2 Environmental Evaluation

2A Resource Concerns	2B Existing Condition	2C Alternatives and Effects		
		Proposed Action	No Action	Alternative
		Remove tree tops, tree trunks, tree root balls and other debris from one side of drainage system. See sec. 1E for specific information.	No removal of tree tops, tree trunks, tree root balls and other debris from drainage system.	Remove tree tops, tree trunks, tree root balls and other debris from both sides of drainage system. See sec. 1E for specific information.
2D Effects of Alternatives				
<b>Soil</b>				
Bank erosion	10 tons/acre	5 tons/acre	10 tons/acre	5 tons/acre
Compaction	n/a	Slight increase due to equipment	n/a	Moderate increase due to equipment
<b>Water</b>				
Flooding	Property and homes upstream subject to flooding from blockages	Upstream flooding significantly reduced during peak rainfall events once debris is removed	Property and homes subject to continued flooding during rainfall events	Upstream flooding significantly reduced during peak rainfall events once debris is removed
Excessive sediments and turbidity	Stream flow is minimally impacted in various points along drainage system from sediment and existing root balls will increase turbidity	Removal of root balls will significantly reduce sediments entering into drainage system and reduce souring effects	Sedimentation and turbidity will increase due to scouring	Removal of root balls will significantly reduce sediments entering into drainage system and reduce souring effects
Stream health (SVAP)	4.5 (Poor)	5.2 (Poor)	4.5 (Poor)	5.2 (Poor)
<b>Air</b>				
Particulate matter	n/a	Dry conditions will increase slightly with use of equipment	n/a	Dry conditions will increase moderately with use of equipment
<b>Plant</b>				
Plant health	Moderate decrease due to increase of debris	Removal of light debris will reduce plant suppression and moderately increase diversity of species.	Plant health will be suppressed until abundant debris decays.	Removal of light debris to increase plant health will moderately increase diversity of species.
Riparian Area	Moderate damage has occurred through loss of large trees	Removal of debris will allow for moderate increase in re-vegetative processes	Invasive species are present and may become predominate, causing impacts on benefits of buffer	Removal of light amount of debris will moderately increase benefits of buffer
<b>Animal</b>				
Aquatic life	Increased debris has caused stagnant water pools and traditional patterns have been interrupted	Removal of light debris will moderately increase natural conditions	Stagnant water pools may cause significant accumulation of undesirable aquatic species.	Removal of light debris will moderately increase flowage and recreate natural conditions
Small animals	Loss of large cavity trees as cover and source of food	Removal of suppress ional debris will significantly increase escape cover by increasing understory growth and development of seed sources	Slow regeneration	Removal of suppressional debris will significantly increase enhancement and development of seed sources in an efficient period of time.
<b>Other</b>				
Human	Entanglement of large trees, tree tops, and tree root balls.	Safety factor of children will be significantly increased due to adjoining home sites	Safety issue	Safety factor of children will be significantly increased due to adjoining home sites
Aesthetics	Entanglement of unsightly clutter of tops, logs, and root balls	Significantly increase through removal	Cause more unsightly conditions through accelerated growth of vines and brambles	Significantly increase through removal

**Section 2E Special Environmental Concerns**

Resource Consideration	Existing Condition	Alternatives and Effects		
		Proposed Action	No Action	Alternative
Clean Water Act Waters of the U.S.	CWA jurisdiction-poor water quality	CWA permit required-improve water quality and restore hydrology (Water Quality Cert.)	Poor water quality	CWA permit required-improve water quality and restore hydrology (Water Quality Cert.)
Coastal Zone Management Areas	N/A	N/A	N/A	N/A
Coral Reefs	N/A	N/A	N/A	N/A
Cultural Resources	(FOTG) None observed on site	(FOTG) None observed on site	(FOTG) None observed on site	(FOTG) None observed on site
Endangered and Threatened Species	(FOTG) Federal/State list none observed on site	(FOTG) Federal/State list none observed on site	(FOTG) Federal/State list none observed on site	(FOTG) Federal/State list none observed on site
Environmental Justice	N/A	N/A	N/A	N/A
Essential Fish Habitat	(FOTG) No EFH	(FOTG) No EFH	(FOTG) No EFH	(FOTG) No EFH
Fish and Wildlife Coordination	No drainage modification required; therefore, consultation not required for debris removal	LDWF will be consulted	No drainage modification required; therefore, consultation not required for debris removal	LDWF will be consulted
Floodplain Management	100-year floodplain function is impaired	100-year floodplain function is restored	100-year floodplain function is impaired	100-year floodplain function is restored
Invasive Species	Chinese tallow trees, yaupon, and Japanese privet along drainage system	Creation of openings may enhance spread of undesirables but will increase control opportunities	Chinese tallow trees, yaupon, and Japanese privet along drainage system	Creation of openings may enhance spread of undesirables but will increase control opportunities
Migratory Birds	Food and cover quality reduced	Food and cover quality improved	Food and cover quality reduced	Food and cover quality improved
Natural Areas	Exist at lower end of drainage system	Aesthetics will be restored	Exist at lower end of drainage system	Aesthetics will be restored
Prime and Unique Farmlands	(FOTG) None present	(FOTG) None present	(FOTG) None present	(FOTG) None present
Riparian Areas	Area impacted by flooding due to light debris accumulation	Area improved through debris removal	Area impacted by flooding due to light debris accumulation	Area improved through debris removal
Scenic Beauty	Impaired by light amount of debris	Restored when debris is removed	Impaired by light amount of debris	Restored when debris is removed
Wetlands	Debris will cause increased flooding impacting wetland functions and degrading existing vegetation	Removal of debris will improve wetland function and protect upland vegetation from flooding	Debris will cause increased flooding impacting wetland functions and degrading existing vegetation	Removal of debris will improve wetland function and protect upland vegetation from flooding
Wild and Scenic Rivers	N/A	N/A	N/A	N/A

Completed By: \_\_\_\_\_ (TLM)

Date: March 18, 2006

**DSR NO: 019-05-070R**

**Section 2F Economic**

**This section must be completed by each alternative considered (attach additional sheets as necessary).**

	Future Damages (\$)	Damage Factor (%)	Near Term Damage Reduction
Properties Protected (Private)			
2 homes x \$83,365	\$166,730	25%	\$41,682.50
Properties Protected (Public)			
Business Losses			
Other			
Total Near Term Damage Reduction			\$41,682.50
<b>Net Benefit (Total Near Term Damage Reduction minus Cost from Section 3)</b>			<b>\$</b>

See attached market value worksheets.

Completed By: Sarah Haymaker

Date: March 18, 2006

**Section 2G Social Consideration**

**This section must be completed by each alternative considered (attach additional sheets as necessary).**

	<b>YES</b>	<b>NO</b>	<b>Remarks</b>
Has there been a loss of life as a result of the watershed impairment?		<b>X</b>	
Is there the potential for loss of life due to damages from the watershed impairment?	<b>X</b>		Emergency vehicle access could be restricted in areas downstream.
Has access to a hospital or medical facility been impaired by watershed impairment?		<b>X</b>	
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)	<b>X</b>		Impairment increases flooding impact throughout the community, especially downstream. Loss of utilities and access could be experienced.
Is there a lack or has there been a reduction of public safety due to watershed impairment?	<b>X</b>		Future events could impact nearby roadways, bridges and access to emergency services, especially downstream.

Completed By: Sarah Haymaker

Date: March 18, 2006

**Section 2H Group Representation and Disability Information****This section is completed only for the preferred alternative selected.**

Group Representation	<i>Census</i>	Number	<i>Affected</i>
American Indian/Alaska Native Female Hispanic			
American Indian/Alaska Native Female Non-Hispanic			
American Indian/Alaska Native Male Hispanic			
American Indian/Alaska Native Male Non-Hispanic	2	<1%	
Asian Female Hispanic			
Asian Female Non-Hispanic	1	<1%	
Asian Male Hispanic			
Asian Male Non-Hispanic			
Black or African American Female Hispanic			
Black or African American Female Non-Hispanic	2	<1%	
Black or African American Male Hispanic			
Black or African American Male Non-Hispanic	3	1%	
Hawaiian Native/Pacific Islander Female Hispanic			
Hawaiian Native/Pacific Islander Female Non-Hispanic			
Hawaiian Native/Pacific Islander Male Hispanic			
Hawaiian Native/Pacific Islander Male Non-Hispanic			
White Female Hispanic	3	1%	
White Female Non-Hispanic	142	50%	3
White Male Hispanic	5	2%	
White Male Non-Hispanic	128	45%	3
Total Group	286	100%	6

NOTE: This demographic data was taken from the 2000 U.S. Census. See the attached tables for details. The data indicates there are 286 persons in 95 households.  $286 \text{ p} / 95 \text{ h} = 3 \text{ person/household}$ .  $2 \text{ h} \times 3 \text{ p/h} = 6 \text{ people}$  in the area affected.

Census tract(s) Tract 22.01 Block 2008Completed By: Sarah HaymakerDate: March 18, 2006

Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits:

Sponsor will secure all easements, permission to access work areas along drainage system on private lands.

U.S. Army Corps of Engineers 404 permit will be required where applicable.

CWA and water quality certification may be required for grubbing of stumps.

Mitigation Description:

Work will be performed from one side of the channel only as described in engineering report.

Debris will be disposed in approved and approved land fill site.

Removal or chipping debris from drainage system will improve water quality.

Agencies, persons, and references consulted, or to be consulted:

U.S. Army Corps of Engineers

Louisiana Department of Environmental Quality

LDWF for consultation purposes



**Section 4 NRCS EWP Funding Priority**

Complete the following section to compute the funding priority for the recovery measures in this application (see instructions on page 10).

Priority Ranking Criteria	Yes	No		Ranking Number Plus Modifier
1. Is this an exigency situation?		X		
2. Is this a site where there is serious, but not immediate threat to human life?	X			2 d, e
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?	X			
4. Is this site a funding priority established by the NRCS Chief?		X		
<b>The following are modifiers for the above criteria</b>			<b>Modifier</b>	
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?			N	
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?			N	
c. Will the proposed action or alternatives protect or conserve prime or important farmland?			N	
d. Will the proposed action or alternatives protect or conserve existing wetlands?			Y	
e. Will the proposed action or alternatives maintain or improve current water quality conditions?			Y	
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?			N	

Enter priority computation in Section 1A, NRCS Entry, Funding priority number.

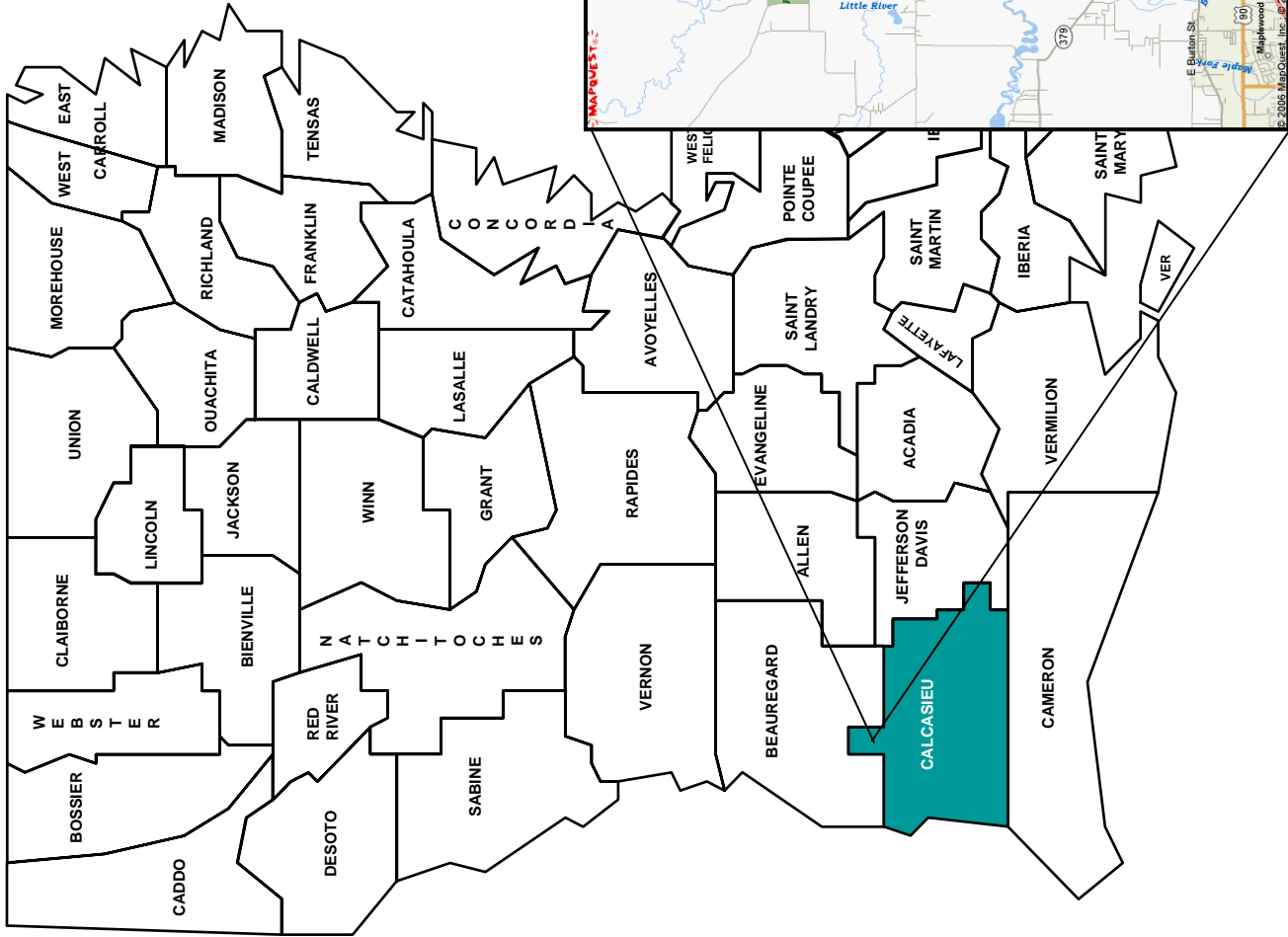
Remarks:

Remove debris from the east side of drainage system which is approximately 2800 feet. Debris will be removed and/or chipped. Removed debris will be disposed of in an approved land fill site. If debris is chipped then care will be taken not to make residue too deep or too close to drain.

11 of 14  
Approved 7/2005

## SECTION 6

### ATTACHMENTS

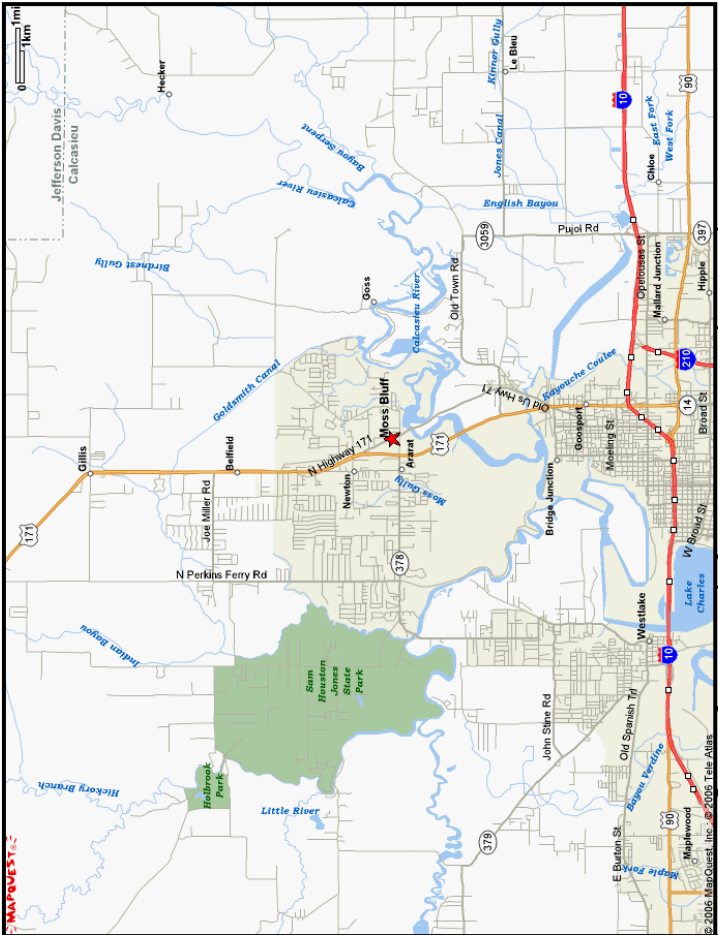


# Vicinity Location Map

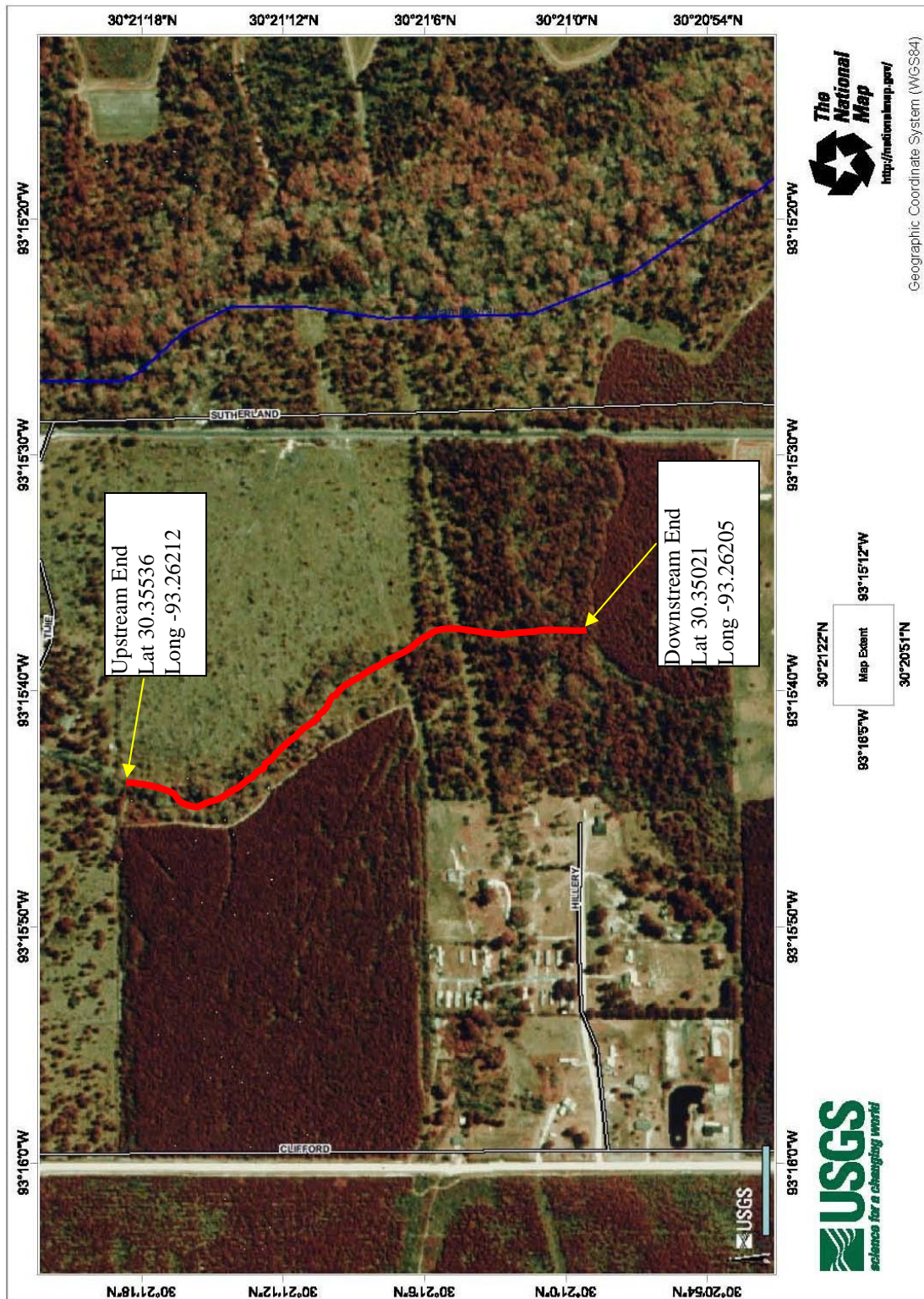
Calcasieu Parish

DSR# 019-05-070R

1B-4A

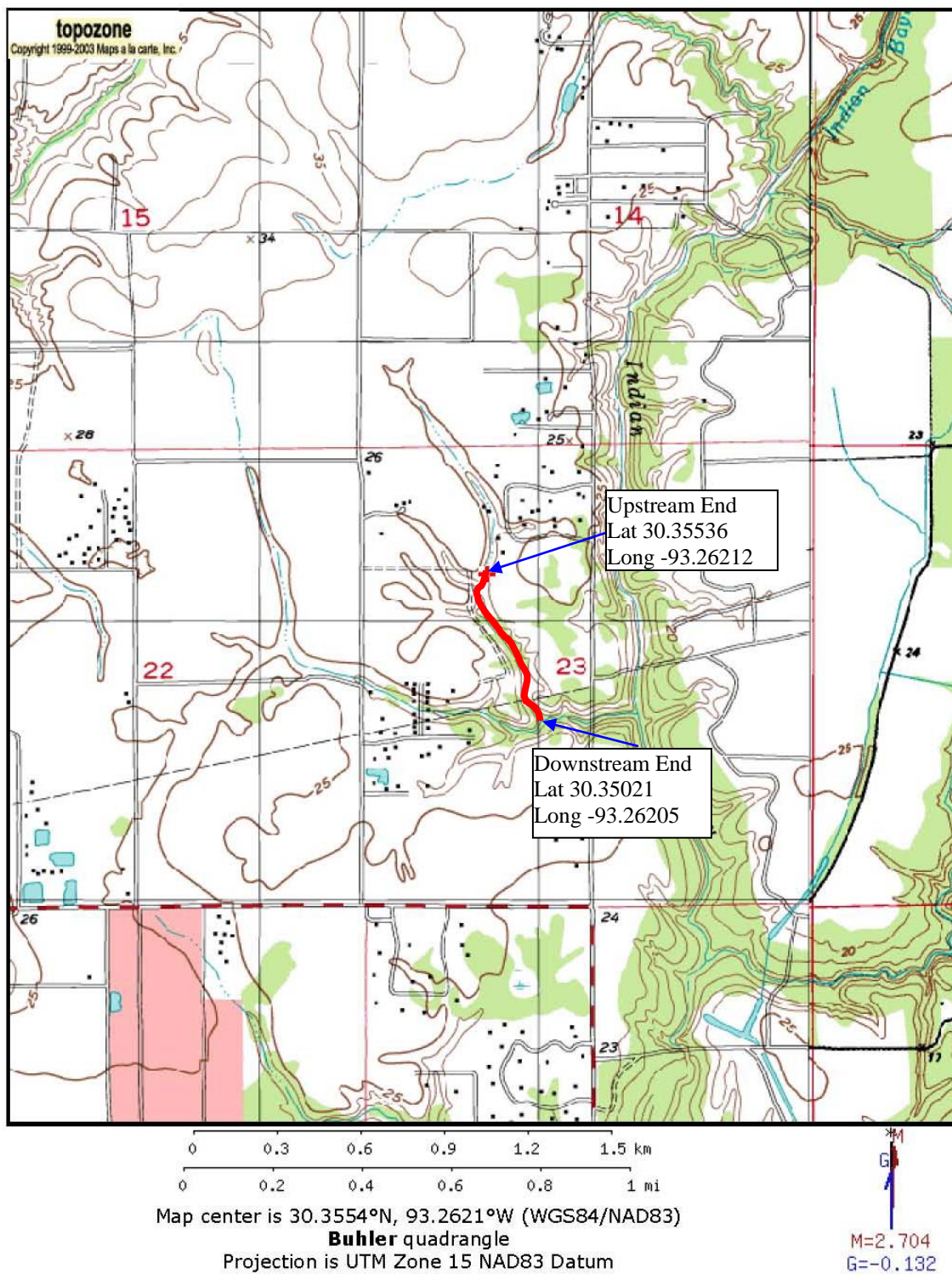


SITE MAP  
DSR 019-05-070R  
1B-4A  
Calcasieu Parish

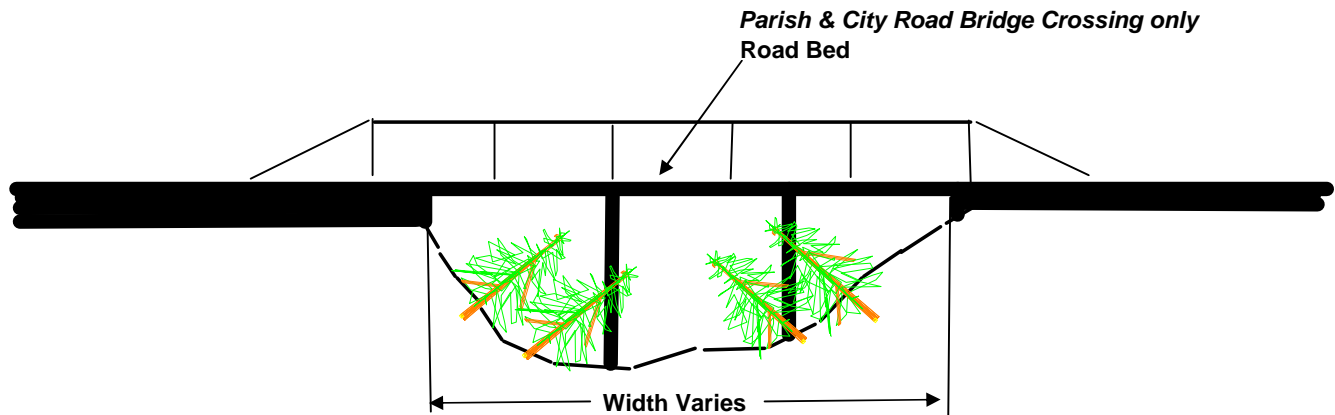




TOPO MAP  
DSR 019-05-070R  
1B-4A  
Calcasieu Parish



## Debris Removal



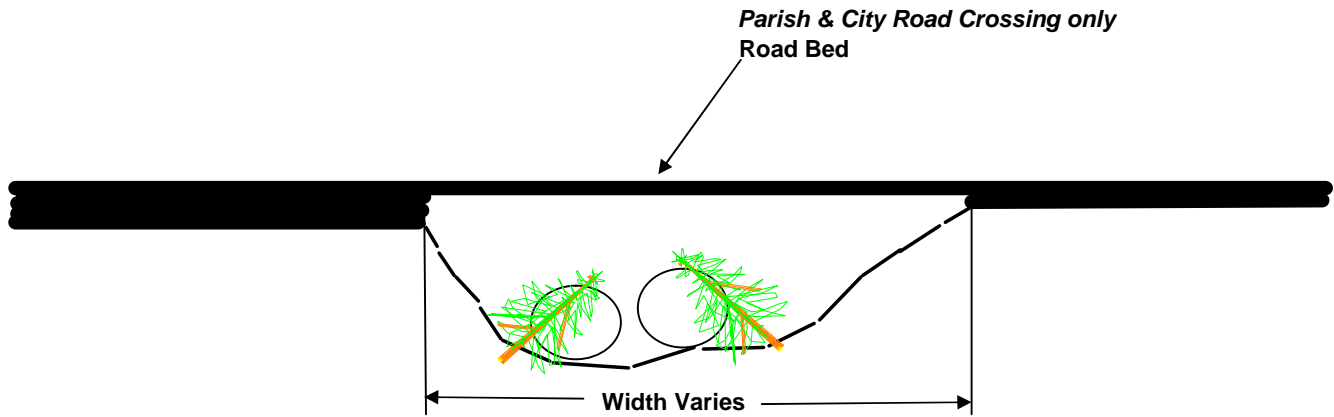
**Note:** Contract is to remove Debris from upstream and downstream Bridge which includes underside of bridge

**Exception:** All Crossing which cross State or Federal highways are not included in contract

## Typical Road Bridge Crossing Not to Scale

Notice:  
48 Hours Before Digging  
Call 1-800-272-3020

## Debris Removal



**Note:** Contract is to remove Debris from upstream and downstream Culverts which includes inside of culverts

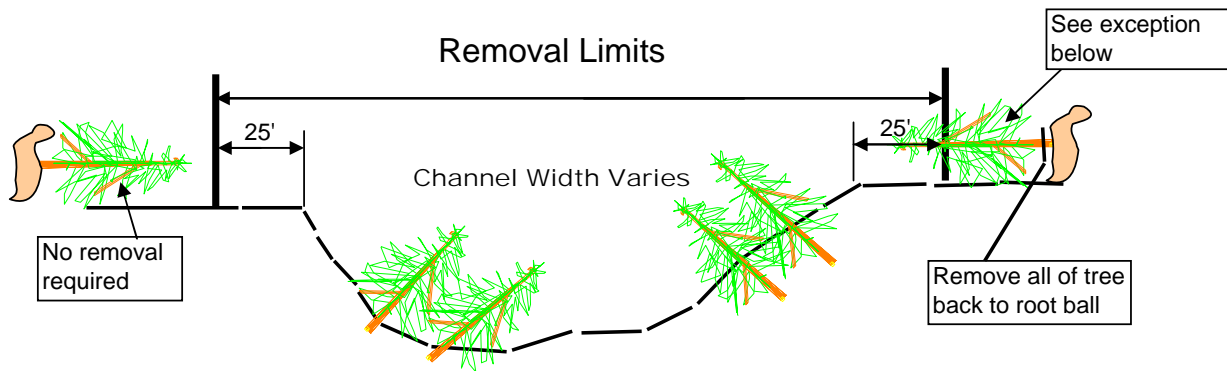
**Exception:** All Crossing which cross State or Federal highways are not included in contract

## Typical Road Culvert type Crossing Not to Scale

Notice:  
48 Hours Before Digging  
Call 1-800-272-3020



## Debris Removal



Typical Section Not to Scale

Notice:  
48 Hours Before Digging  
Call 1-800-272-3020

**\*Note :** Access and work both sides; however work to be performed on one side only in any reach as concurred in by COTR.

**Exception** it may be possible that trees which were located outside of the the removal limits may have fallen into the removal limits, the entire tree will be removed back to the root ball even if only a portion of the tree is within the removal limits

## Channel Obstruction Evaluation

SITE INFORMATION			
Parish: <u>CALCASIEU</u>		Site: <u>1B4A</u>	
City:			
Sponsor:		Reach: From - <u>2800 LIN. FT.</u>	
Date: <u>3-18-06</u>		To -	
Evaluation Team: <u>PETE ANDERSON</u>			

PHOTO NUMBERS AND BRIEF DESCRIPTION		WAYPOINTS	
Photo #	Description	(CIRCLE location and record in Decimal Degrees)	
	<u>See attached sheet</u>	Start Work (D/S end)	<u>N30.35536 93.26210</u>
		Midstream	
		End Work (U/S end)	<u>N30.35221 93.26053</u>

NEARBY AND UPSTREAM STRUCTURES			
(Fill in Numbers, Values, and Size)			
CHURCHES		SCHOOLS	
No. of Churches		No. of Schools	
HOMESITES		PUBLIC FACILITIES	
No. of Homesites		No. of Public Facilities	
BUSINESSES		BUSINESSES	
Average Value of Homes (X \$1,000)		No. of Businesses	
		Size of Businesses	S M L

STREAM CROSSINGS		
(CIRCLE type and write material, size and length)		
TYPE	MATERIAL	NUMBER, SIZE, & LENGTH
Bridge		
Culverts	<u>NONE</u>	
Other or None		

UTILITIES			
(CHECK the location of the utilities in the area and CIRCLE stream orientation)			
	Overhead (Power, Cable, etc.)	U/S	D/S
<u>X</u>	Buried ( <u>Gas</u> <u>Sewer</u> water, etc.)	U/S	D/S
	Elevated Cross channel (Water, Gas, etc.)	U/S	D/S

Remarks:

CHANNEL CHARACTERISTICS				FLOW	
(CHECK appropriate box for slope and fill in dimensions information)					
SLOPES		DIMENSIONS		Is Water Flowing?	
	1.5 : 1 or steeper	Top Width (ft.)	<u>8-10</u>	YES	NO
<u>X</u>	1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	<u>3</u>	Is debris accumulating? (i.e. Leaves, Trash)	
	Flatter than 3 : 1	Depth (ft.)	<u>1-3</u>	YES	NO

STATEMENT OF PROBLEM						
(CHECK the boxes as needed, and CIRCLE the size of debris that applies)						
DEBRIS	IN CHANNEL	ACROSS CHANNEL	SIZE OF DEBRIS			BLOCKAGE
						% of X-Section Obstructed:
Pine Trees	<u>X</u>	<u>X</u>	(Light)	Moderate	Heavy	(Less than 25%)
Hardwoods	<u>X</u>	<u>X</u>				(26%-50%)
Shrubs						(51%-75%)
Other (explain)						(76%-100%)

WORK METHOD AND LOCATION	
(CHECK the box that best applies)	
	Within Channel Floating Equipment (i.e. Barge or Marsh Buggy)
	Within Channel Non - Floating Equipment (Excavator/Track-hoe, Spider, etc)
<u>X</u>	From Top Banks
ACCESS TO SITE	
(Explain access issues and possible difficulties)	